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WHAT IS CLAIMED IS:

1. A method of selecting devices for an air blow system by using a programmed computer, said method comprising the steps of:

inputting a nozzle diameter, a work distance, and either one of a nozzle immediately upstream pressure and a blow impact pressure in a present state as present state values;

computing a compressed air consumption flow rate and
10 either one of a blow impact pressure and a nozzle
immediately upstream pressure from the present state
values;

inputting an improvement value of either one of the nozzle diameter and the nozzle immediately upstream pressure on a basis of a judgment on computation results; and

computing a compressed air consumption flow rate and either one of a nozzle immediately upstream pressure and a nozzle diameter from the improvement value a necessary number of times, thereby selecting a nozzle diameter and a nozzle immediately upstream pressure that provide a lowest compressed air consumption flow rate.

2. A method of selecting devices for an air blow system by using a programmed computer, said method comprising the steps of:

inputting ① a nozzle diameter, ② a number of nozzles, ③ one of a nozzle immediately upstream pressure, a blow impact pressure, and a pressure-reducing valve secondary

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pressure, ① either one of a composite sonic conductance and a composite effective sectional area, ⑤ a piping material, and ⑥ a pipe length in a present state as present state values;

inputting either one of an upstream pressure loss and a conductance ratio as a set value used as a reference when a recommended circuit is selected; and

computing an upstream pressure loss and a conductance ratio in the present state from the present state values and the set value.

3. The method of claim 2, further comprising the steps of:

computing, when the computed upstream pressure loss or conductance ratio in the present state does not satisfy the set value, a recommended circuit electromagnetic valve sonic conductance and a recommended circuit pipe inner diameter that satisfy the set value; and

selecting upstream piping system devices and a pressure-reducing valve that are conformable to the computed recommended circuit electromagnetic valve sonic conductance and recommended circuit pipe inner diameter.

4. A method of selecting devices for an air blow system by using a programmed computer, said method comprising the steps of:

inputting a nozzle diameter, a number of nozzles, and either one of a nozzle immediately upstream pressure and a blow impact pressure in a new system as new values;

inputting either one of an upstream pressure loss

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and a conductance ratio as a set value used as a reference when a recommended circuit is selected;

computing a recommended circuit electromagnetic valve sonic conductance and a recommended circuit pipe inner diameter that satisfy the set value from the new values and the set value; and

selecting upstream piping system devices and a pressure-reducing valve that are conformable to the computed recommended circuit electromagnetic valve sonic conductance and recommended circuit pipe inner diameter.

5. A recording medium storing a program for selecting devices for an air blow system by using a computer, said program comprising the steps of:

inputting a nozzle diameter, a work distance, and either one of a nozzle immediately upstream pressure and a blow impact pressure in a present state as present state values;

computing a compressed air consumption flow rate and either one of a blow impact pressure and a nozzle immediately upstream pressure from the present state values;

inputting an improvement value of either one of the nozzle diameter and the nozzle immediately upstream pressure on a basis of a judgment on computation results; and

computing a compressed air consumption flow rate and either one of a nozzle immediately upstream pressure and a nozzle diameter from the improvement value a necessary

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number of times, thereby selecting a nozzle diameter and a nozzle immediately upstream pressure that provide a lowest compressed air consumption flow rate.

6. A recording medium storing a program for selecting devices for an air blow system by using a computer, said program comprising the steps of:

inputting ① a nozzle diameter, ② a number of nozzles, ③ one of a nozzle immediately upstream pressure, a blow impact pressure, and a pressure-reducing valve secondary pressure, ④ either one of a composite sonic conductance and a composite effective sectional area, ⑤ a piping material, and ⑥ a pipe length in a present state as present state values;

inputting either one of an upstream pressure loss and a conductance ratio as a set value used as a reference when a recommended circuit is selected; and

computing an upstream pressure loss and a conductance ratio in the present state from the present state values and the set value.

7. The recording medium of claim 6, wherein said program further comprises the steps of:

computing, when the computed upstream pressure loss or conductance ratio in the present state does not satisfy the set value, a recommended circuit electromagnetic valve sonic conductance and a recommended circuit pipe inner diameter that satisfy the set value; and

selecting upstream piping system devices and a pressure-reducing valve that are conformable to the

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computed recommended circuit electromagnetic valve sonic conductance and recommended circuit pipe inner diameter.

8. A recording medium storing a program for selecting devices for an air blow system by using a computer, said program comprising the steps of:

inputting a nozzle diameter, a number of nozzles, and either one of a nozzle immediately upstream pressure and a blow impact pressure in a new system as new values;

inputting either one of an upstream pressure loss and a conductance ratio as a set value used as a reference when a recommended circuit is selected;

computing a recommended circuit electromagnetic valve sonic conductance and a recommended circuit pipe inner diameter that satisfy the set value from the new values and the set value; and

selecting upstream piping system devices and a pressure-reducing valve that are conformable to the computed recommended circuit electromagnetic valve sonic conductance and recommended circuit pipe inner diameter.